AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (Currently Amended) A polyethylene wax defined by the following features (i) to [[(iv)]] (vi):
- (i) said polyethylene wax is an ethylene homopolymer or a copolymer of ethylene and at least one olefin selected from α -olefins of 3 to 20 carbon atoms,
- (ii) a ratio (Mw/Mn) of the weight-average molecular weight (Mw) to the number-average molecular weight (Mn), as measured by gel permeation chromatography (GPC), is in the range of 1.7 to 4.0,
 - (iii) the softening point is not higher than 125°C 105°C, and
 - (iv) the penetration hardness is not more than [[15]] 10 dmm,
- (v) a ratio (Mz/Mw) of a z-average molecular weight (Mz) to a weight-average molecular weight (Mw), as measured by gel permeation chromatography (GPC), of 1.5 to 2.0, and
 - (vi) a density of 880 to 910 kg/m³.
- 2. (Currently Amended) The polyethylene wax as claimed in claim 1, which is a copolymer of ethylene and at least one olefin selected from α-olefins of 3 to 20 carbon atoms and has a ratio (Mw/Mn) of a weight-average molecular weight (Mw) to a number-average molecular weight (Mn), as measured by gel permeation chromatography (GPC), of 2.6 to 4.0, a softening point of not higher than 110°C, a penetration hardness of not more than 15 dmm, an intrinsic viscosity [η], as measured in decalin at 135°C, of 0.15 to 0.50 dl/g, a ratio (Mz/Mw) of a z-average molecular weight (Mz) to a weight-average molecular weight (Mw),

as measured by gel permeation chromatography (GPC), of 1.5 to 2.0, a density of 880 to 910 kg/m³ and an acetone extraction quantity of not more than 6% by weight, wherein the softening point (Ts (°C)) and the penetration hardness (Y (dmm)) satisfy the following relationship (I):

$$-0.53$$
Ts $+62 > Y > -0.53$ Ts $+53$ (I).

- 3. (Currently Amended) The polyethylene wax as claimed in claim 1, which is an ethylene homopolymer or a copolymer of ethylene and at least one olefin selected from α olefins of 3 to 20 carbon atoms and has a ratio (Mw/Mn) of a weight-average molecular weight (Mw) to a number-average molecular weight (Mn), as measured by gel permeation chromatography, of 1.7 to 3.3, a softening point of 88 to 125°C 105°C, a penetration hardness of not more than 7 dmm and an intrinsic viscosity [η], as measured in decalin at 135°C, of 0.05 to 0.20 dl/g.
- 4. The polyethylene wax as claimed in claim 1, which is prepared by the use of a metallocene catalyst.
 - 5-9. (Canceled)